

ABSTRACT

This invention comprises an improvement on the examination and evaluation of donor corneas. The improved apparatus includes the incorporation of a diffused light source, or sources, which are placed posteriorly to a donor cornea, with a viewing means placed anteriorly to said cornea. The apparatus involves the addition of the diffused light sources to existing apparatus, as well as the possible incorporation of a digital video camera or other electronic viewing means, which was not usable under the prior art. The method of placement of the diffused light source or sources is also novel, as compared with the prior art.

Using this apparatus and method, the diffused light passes through the cornea, and is received by the viewing means. The viewing means is able to capture and image of the cornea, where the diffused light denotes any imperfections to the cornea. Use of the diffused light allows a complete view of the entire cornea at one time. The view of the cornea may be captured using a digital video camera or other means, with the image capable of being transmitted to another viewer, or where the entire examination can be done using a high resolution monitor.